

## Global Hawk #872 09/22/16 - 09/23/16

### Aircraft:

[Global Hawk #872](#) (See full schedule)

### Flight Number:

872-0174

### Payload Configuration:

NOAA SHOUT HRR

### Nav Data Collected:

Yes

### Total Flight Time:

24 hours

### Submitted by:

Frank Cutler on 09/24/16

### Flight Segments:

|                           |  |                |                  |
|---------------------------|--|----------------|------------------|
| <b>From:</b>              | KWFF   | <b>To:</b>     | KWFF             |
| <b>Start:</b>             | 09/22/16 22:13 Z   | <b>Finish:</b> | 09/23/16 22:13 Z |
| <b>Flight Time:</b>       | 24 hours   |                |                  |
| <b>Log Number:</b>        | <a href="#">16H004</a>   | <b>PI:</b>     | Gary Wick        |
| <b>Funding Source:</b>    | Robbie Hood - NOAA - UAS Program Manager   |                |                  |
| <b>Purpose of Flight:</b> | Science  |                |                  |
| <b>Comments:</b>          | <p>82 sondes deployed SHOUT 2016 Hurricane Rapid Response Executes Science Flight #5 Above KARL NASA/NOAA Global Hawk launches of 24 hour mission to supplying multi-sensor real-time data to the National Hurricane Center. The NOAA UAS Program's SHOUT launched the NASA Global Hawk at 1813 EDT September 22nd for a multi-aircraft mission above Tropical Storm Karl. According the the National Hurricane Center (NHC), Karl has the opportunity to strengthen during the next couple of days while it is moving over warmer water and relatively low shear as it approaches Bermuda and turns North. The Bermuda Weather Service has issued a Tropical Storm Warning characterizing Karl as a ?threat? with its closest point of approach to Bermuda to be 54 nm to the SSE at 0300 AST on Saturday, September 24th. Fixes from several reconnaissance planes including the Global Hawk, WC-130s, WP-3, G-IV and satellite show the core of Karl closing in on Bermuda in about 24 hours. The team has been closely coordinating with the manned aircraft for sonde drops and to conduct inter-comparisons between the Global Hawk's High-Altitude Imaging Wind and Rain Airborne Profiler (HIWRAP) and the WP-3's Imaging Wind and Rain Airborne Profiler (IWRAP) above the storm. The SHOUT team is scheduled for a minimum turn-around take-off for science flight #6 at 1600 EDT on Saturday, September 24th in coordination with German, Swiss and US North Atlantic Waveguide and Downstream Impact Experiment (NAWDEX) which is currently flying manned aircraft from Iceland. -- John "JC" Coffey Cherokee Nation Company supporting: NOAA UAS Program Office National Oceanic and Atmospheric Administration SSMC3/ OAR-R/ Room 11100 1315 East West Highway Silver Spring, MD 20910 Email: John.J.Coffey@noaa.gov Office Telephone: 301-734-1104 Cell Telephone: 904-923-1709</p> |                |                  |

### Flight Hour Summary:

|   | 16H004 | 17H006 |
|---|--------|--------|
| <b>Flight Hours Approved in SOFRS</b>   | 220    |        |
| <b>Flight Hours Previously Approved</b> |        | 54     |
| <b>Total Used</b>                       | 166    | 73.2   |
| <b>Total Remaining</b>                  |        | -19.2  |

  

| 17H006 Flight Reports               |          |                   |          |               |                 |
|-------------------------------------|----------|-------------------|----------|---------------|-----------------|
| Date                                | Flt #    | Purpose of Flight | Duration | Running Total | Hours Remaining |
| <a href="#">10/05/16 - 10/06/16</a> | 872-0177 | Science           | 24.7     | 24.7          | 29.3            |
| <a href="#">10/07/16 - 10/08/16</a> | 872-0178 | Science           | 23.7     | 48.4          | 5.6             |
| <a href="#">10/09/16 - 10/10/16</a> | 872-0179 | Science           | 24.8     | 73.2          | -19.2           |

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

**16H004 Flight Reports**

| Date                                | Flt #    | Purpose of Flight | Duration | Running Total | Hours Remaining |
|-------------------------------------|----------|-------------------|----------|---------------|-----------------|
| <a href="#">07/27/16</a>            | 872-0168 | Check             | 4.9      | 4.9           | 215.1           |
| <a href="#">08/19/16</a>            | 872-0169 | Ferry             | 10.3     | 15.2          | 204.8           |
| <a href="#">08/24/16 - 08/25/16</a> | 872-0170 | Science           | 23.9     | 39.1          | 180.9           |
| <a href="#">08/26/16 - 08/27/16</a> | 872-0171 | Science           | 23.8     | 62.9          | 157.1           |
| <a href="#">08/29/16 - 08/30/16</a> | 872-0172 | Science           | 23.8     | 86.7          | 133.3           |
| <a href="#">09/01/16 - 09/02/16</a> | 872-0173 | Science           | 22.8     | 109.5         | 110.5           |
| <a href="#">09/22/16 - 09/23/16</a> | 872-0174 | Science           | 24       | 133.5         | 86.5            |
| <a href="#">09/24/16 - 09/25/16</a> | 872-0175 | Science           | 22.8     | 156.3         | 63.7            |
| <a href="#">09/28/16</a>            | 872-0176 | Ferry             | 9.7      | 166           | 54              |